

**HIGHLY CORROSION-RESISTANT HOT DIP PLATED STEEL MATERIAL
EXCELLENT IN SURFACE SMOOTHNESS**

CROSS REFERENCE TO RELATED APPLICATION(S)

[0001] This application is a national stage application of PCT Application No. PCT/JP03/00129 which was filed on January 9, 2003 and published on September 18, 2003 as International Publication No. WO 03/076679 (the "International Application"). This application claims priority from the International Application pursuant to 35 U.S.C. § 365. The present application also claims priority under 35 U.S.C. § 119 from Japanese Patent Application Nos. 2002-064303 and 2002-130792, filed March 8, 2002 and May 2, 2002, respectively, the entire disclosures of which are incorporated herein by reference.

FIELD OF THE INVENTION

[0002] The present invention relates to a plated steel sheet and, in particular, to a steel material having a particular surface smoothness and being applicable to various applications such as steel sheets for home electric appliances, automobiles and building materials.

BACKGROUND INFORMATION

[0003] Among plated steel materials most commonly used as having a good corrosion resistance, there are galvanized-type and aluminum-plated-type steel sheets. Such plated steel sheets are used in various manufacturing industries including the fields of automobiles, home electric appliances and building materials. In addition to those, plated steel materials are used in various fields including plated steel wires and hot dip plating. In particular, steel materials to which Al-added plating is applied have a high corrosion resistance and, therefore, have been increasingly used in recent years.

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